

Title (en)

SOURCE OF WAVEFORM DISTORTION DISCRIMINATION CIRCUIT AND METHOD

Title (de)

SCHALTKREIS UND VERFAHREN ZUR ERFASSUNG EINER WELLENFORM-STÖRUNGSQUELLE

Title (fr)

CIRCUIT ET PROCEDE DE DISCRIMINATION DE LA SOURCE DE DISTORSION DE FORMES D'ONDE

Publication

**EP 0858604 A1 19980819 (EN)**

Application

**EP 96939505 A 19961030**

Priority

- US 9617278 W 19961030
- US 55138995 A 19951101

Abstract (en)

[origin: WO9716739A1] A circuit to discriminate the source of harmonic distortion of the output voltage comprises voltage sensors (28, 30) coupled to the output terminals of a source of electric power (16) and to a point of regulation (24) remote from the source for sensing the output voltage waveform present at each of these locations; means (32, 34) coupled to the voltage sensors (28, 30) for calculating the percentage total harmonic content of each of the sensed waveforms, and means (36) for comparing them to determine the source of distortion; means (42) coupled to the voltage sensors (28, 30) for calculating the actual voltage difference between the two sensed voltages, and means (46) for sensing the current flowing in the feeders (18a-c) which is compared with a profile of the normal voltage drop versus connected load (48) to generate an expected voltage drop; and a protection logic circuitry (40).

IPC 1-7

**G01R 23/20**; **G01R 21/06**

IPC 8 full level

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